

I claim:

1. A RF communications module for audio and video data comprising:

a) a support having a predetermined form factor;

b) a first radio frequency (RF) transmitter for local area network communication supported by the support, and operative for transmitting the data according to first communications standard;

c) a second radio frequency (RF) transmitter for wide area network communications supported by the support, and operative for transmitting the data according to second communications standard different from the first standard;

d) a common baseband processor coupled to said first and second transceivers for processing a baseband signal to or from each transceiver; and

e) an image processor ID reader supported by the support, and operative for compressing video image data provided to said module and transferring such compressed data to the baseband processor for transmission by one of said transmitters.

2. The module of claim 1, wherein the support includes a printed circuit board on which electrical circuit components for the RF transceivers are mounted.

3. The module of claim 1, wherein the RF transceiver and the video imager reader generate digital signals corresponding to the RF demodulated data and the video encoded data respectively, and wherein the IC receives and processes each of the digital signals using a single fast Fourier transform circuit.

4. A module as defined in claim 1, wherein the first transceiver uses a local area network communications standard, and the second receiver used a wide area network communications standard.

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5. A module as defined in claim 4, wherein the auto ID reader is an imager for a two dimensional image of a field of view.

6. A mobile computer collection terminal, comprising:

- a) a hand-held housing;
- b) a support supported by the housing and having a predetermined form factor; and
- c) a first and a second radio frequency (RF) transceiver supported by the support, and operative for communicating with a first and second RF base stations respectively associated with a first and second computer networks for transferring data between the terminal and network; and
- d) an image processor ID reader supported by the support, and operative for compressing video image data provided to said module and transferring such compressed data to the baseband processor for transmission by one of said transmitters.

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7. The data collection terminal of claim 6, wherein the form factor occupies a space for an SE 1200 scan engine.

8. The data collection terminal of claim 7, wherein the support includes a printed circuit board on which electrical circuit components for the RF transceiver and auto ID readers are mounted.

9. The data collection terminal claim 8, wherein the RF Transceiver includes a first antenna, a second antenna, and a circuit for modulating and demodulating the RF signal.

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